# mogkyluut and its species in the united states. 

BY SAMUEL H. SCUDDER, CAMBRIDGE, MASS.

Miogryllus, an American genus, has not hitherto been recognized as occurring in the United States, excepting that one of its species, originally described by me as a Gryllocles, was placed here by Saussure, who had not seen it. A study of the material in my collection, though scanty, reveals the presence of no less than five species, all found along our southern border, which may be separated by the table given below.

I have seen none of the species fomnd further souti beyond our borders, but as developed in the United States, Miogryllus - first described as a section or subgenus of Gryllus - is distinguished from Gryllus by the much smaller size of its representatives, approximating Nemobius, in the (usual) absence or ex-
tremely inconspicuous nature of the auditory foramen on the inner side of the fore tibiae (found distinctly in only one species), in the unbranched or only onebranched (rarely two-branched) mediastinal vein of the tegmina, in the presence of only two "oblique veins" on the tympanum of the male tegmina, in the longitudinal course of the veins on the dorsal field of the female tegmina, in the brevity of the hind tibiae, which are only about two thirds as long as the hind femora and are armed on either side with four or five spines only, and in the striped or banded, usually longitudinally striped, summit of the head. The male tegmina are apically truncate or subtruncate, and the antemnae are apparently longer and slenderer than in Gryllus.

Table of the United States species of Miogryllus.
$a^{1}$. Auditory foramen on imner side of fore tibiae absent or very obscure.
$l^{1}$. 1)isk of pronotum mottled irregularly with dark and light in equal masses, or wholly dark; hind tibiae not or scarcely more than two thirds as long as hind femora; mediastinal vein of tegmina not more than one-branched.
$c^{-1}$. Head relatively large; pronotum noticeably broader in front than behind, the colors on disk and lateral lobes prevailingly light . . . capitatus. $c^{2}$. Head relatively small; pronotum not or but feebly broader in front than behind, the colors on disk and lateral lobes prevailingly dark.
$d^{1}$. Head conspicuously striped longitudinally; lateral lobes of pronotum narrowly margined beneath with light color; tegmina shorter than head and pronotum combined, the mediastinal vein unbranched

- linaatus. $d^{2}$. Head generally black, sometimes slightly striped longitudinally; lateral
lobes of pronotum broadly margined beneath with pale color; tegmina longer than head and pronotum together, the mediastinal vein one-branched sullSillti\%.
$h^{2}$. Disk of pronotum mainly light, with transverse dark stripes: hind tibiae clistinctly, though but slightly, more than two thirds as long as hind femora: mediastinal vein of tegmina one- or two-branched
traymãersalis. $a^{2}$. Auditory foramen on inner side of fore tibiae distinct though small . sicurius.


## Miogryllus capitatus sp, nor.

A stout species, conspicuonsly marked. Head large, tumid, glistening, dark tuscous abose, conspicuously striped longitudinally with testaceons, there being three stripes on cither side, while all the lower part of the head in testaceons, including the mothth parts; eyes black; antennae luteo-testaceous. Pronotum half as broad again as long, increasing shightly but distinctly and regularly in size from behind forwards, both margins trancate, with a median impressed line, the disk and upper half of lateral lobes mottled with blotches of fuscous and ferrugineotesaceous in about eyual amounts, the lower hatif or more of the lateral lobestextaccons but narrowly edged with fuscous. Tegmina about as long as the head and pronotum together, apically subtruncate, testaccous, the mediantinal rein one-branched. Legs testaceous, the fore tibiae with the anditory foramen of inner side very feebly indicated, the hind tibiae slightly more than two thirds as long as hind femora, with five spines on either margin above.
Length of body, 12.5 mm ; pronotum, 3 man. ; breadth of head, 4.75 mm ; of pronotum in front, 4.5 mm ; length of tegmina. 5.75 mm ; hind femorin, 9.5 mm ; hind tibiae, 6.5 mm .

I d, 2 immature. Gulf coast of Texas (Aaron).

The large head is the noticeable feature in this species.

## Miogryllus lineatus.

Grorlodes limextus Scudd.. Ann. rep. chief eng., 1876, 499 (1876).

The hind femora are 6.5 mm . long and the hind tibiae +.25 mm .

Between Virgin River and Jit. Mohave, Ariz., Aug. (IV. Somes).

## Miogryllus saussurei.

Gry/hes satussmrit sicudd.. Proc. liosi. soc. nat. hist., xis, 35-36 (1877).

The measurements of the hind legs are: femora, of 9.5 mm ., ㅇ. $9 \mathrm{mm}$. : tibiae, of, $\%, 6 \mathrm{~mm}$.

Georgia (Morrison) ; Rosewell, (ien. (King) ; Sandford, Fla. (G. B. Frazer) ; Key West, Fla. (Morrison).

Miogryllus transversalis sp. nov.
A relatively slender specic. heratceou. transersely marked with fuscous. llead rather small, tentaceous, marked with a larse tacoun pateh between the ocelli ind tor ath equal space behind them, ats well ats down the tront mearly to the clypeus on citho side next the antennal serober ; cyen and a patt h below othem funcous ; antennat then or tome times an long ats body, fermgincotcotaceors. the basal joint luteons. Pronotmon about half ats broad again an long, suberpual but broades in the middle. both matains trum
cate，the disk luteo－testaceous，broadly mar－ gined behind with fuscous，the lateral lobes shallow，fuscous，with an oblique elliptical luteous patch at the lower anterios angle． Tegmina considerably longer than head and pronotam logether，apically trumeate，testace－ ous more or less infumated，the veins luteons， the mediastinal vein one－or two－branched； wings apparently aborted．legs pale lateous， slightly flecked with fuscous，the atclitory trmpantan on inner side of fore tibite want－ ing，the hind tibite somewhat more that two hirds as long as the hind femora，with five rather lons and slender spincs on either mar gin ：buve．

Lengit of body， 13 mm ；pronotism， 2.5 mm ；breadth of head， 3.75 mm ；of pronotum at front margin， 3.5 mm ；length of tesminal， 5.6 mm ．；of hind femora，to mm．；hind tibiace， 7 mm ．

## i d，Biscayne lay，Fla．（Mrs．A．T．

 Slosson）．This species is remarkable for the transverse ciffect of the makings of the front of the body and has relatively longer hind tibiae than the other species．

## Miogryllus sicarius sp．nov．

A light－colored slender species．Head tes taceous with a large wotical fuscons pateh
extending from the hinder edge of the anten－ nae backward．hut not reaching the eyes，and containing two slemder longitudinal testace－ ous stripes．Pronotum ithout half as broad again as long，cyal in breadth throughout， the hind margin fecth！sinuors，the whole testaceous considerably botched with trans－ verace patthen of fuscotic on the disk，the lat－ eral carimae manked posterionly with fumous， the lower margin of the lateral lohes and the hind margin ot the disk fechly edged with fuscous．Tigmina tentaceors，fully as long an head and promotum together，not apically truncitc，dee mediantinal vein mbranched； wing exceedingly long，extending bachward when at rent about an far ：ts the outstretched hind legs．Legh teitaceon，the anditory foramen on inner side of the fore tilatae small but distinct，short oval；hind tibiac ahout wo thirds as long as hind femora，with foum spines on the inner，five on outer row ；ori－ positor twice an long as hind tibiate．
Lengith of body， 33 mm ；pronotum， 2.25 mun．；breadth of head． 3.5 mm ．；pronotum． 3.5 mm ．；length of tegmina， 6 mm ；hind femora． 7.75 mm ；hind tibiac， 5 mm ；ori－ positor， 10 mm ．

1 \＆，San Diego（thher）．
This is the only species which has a distinct auditory foramen on the fore tibiae．

## にたRMLS（）ぜたRCUS LINN．

BY GEO．D．KING，LAWRVNCF，MASS．

Just recently 1r．I．．Reh，of Ham－ burg，Germany，sent me some scale insects for names．In one vial，to my surprise and with much pleasure，I
found a scale insect which seems to have been involved in obscurity for orer a century and is here technically de－ scribed for the first time．

